

# Emergency Medicine

## Division Details

### RESEARCH AND TRAINING DETAILS

Faculty	46
Joint Appointment Faculty	4
Total Annual Grant Award Dollars	\$2,486,092

### CLINICAL ACTIVITIES AND TRAINING

Staff Physicians	34
Clinical Fellows	13
Outpatient Encounters	179,903



Row 1: L Vaughn, J Dexheimer, T Rhine, J Reed

Row 2: L Babcock, M Eckerle, J Gonzalez-del-Rey, C McAneny, S Porter, T Frey

Row 3: T Byczkowski, E Duma, R Ruddy, C Schubert, T Florin, M Mittiga, H Schwartz, S Chan

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## Division Highlights

### Key Milestones and Outstanding Academic Achievements

The 2016-2017 academic year showcased key milestones and outstanding academic achievements for pediatric emergency medicine (PEM.) The Division of Emergency Medicine continued to refine its focus on areas of academic excellence: brain and behavior, infection and inflammation, and the science of everyday care with particular expertise in simulation, improvement science, resuscitation, and educational scholarship. As the lead site for the [HOMERUN](#) node of Pediatric Emergency Care Applied Research Network ([PECARN](#)), the Division of Emergency Medicine at Cincinnati Children's Hospital Medical Center continues to be a leader of collaborative and high-quality outcomes research in our specialty.

PEM faculty and fellows won, and continue to win, awards. At the 2016 [AAP National Conference and Exhibition](#), recognized the following individuals: [Dr. Javier Gonzalez-del-Rey, PhD](#), received the Steve Miller Award for Excellence in Education & Mentorship; [Dr. Brad Sobolewski, MD, MEd](#), received the EBSCO/PEMSoft Award for Technological Innovations in PEM; and [Dr. Theresa Frey, MD](#), received the Ken Graff Young Investigator Prize for outstanding research by a PEM fellow. Locally, [Dr. Charles \(Chuck\) Schubert, MD](#), received the Founder's Award from the Cincinnati Pediatric Society given for his career-long distinguished contributions to the health and welfare of the children in our community. At Cincinnati Children's, Dr. Schubert received the Advocacy Achievement Award, and PEM faculty member, [Dr. Todd Florin, MD, MSCE](#), received the Mentoring Achievement Award. Dr. Florin was also recognized as Teacher of the Year by the Pediatric Residency Program for FY17.

A cornerstone of academic and operational excellence for the medical center, the Center for Simulation, is under the lead of faculty emergency medicine (medical director [Dr. Gary Geis, MD](#); and associate director [Dr. Ben Kerrey, MD](#)) in collaboration with director Aimee Gardner. In fall 2016, the Center was formally re-accredited by the [Society for Simulation in Healthcare](#) in four domains—core, education,

systems integration, and research; becoming the first pediatric academic center to receive this comprehensive designation. The Center offered more than 100 courses, and over 9,000 providers received training in 2016.

Educational scholarship shines a bright light on a key function of an academic medical center—the training and evaluation of learners, and the science of defining and demonstrating competency in practice for health care professionals. Faculty, within the division, produced a significant volume of scholarship on educational themes in FY17. Dr. [Connie McAneney, MD, MS](#); and Dr. [Matthew Mittiga, MD](#), were part of a collaborative of PEM leaders who published a seven article seminal series “Essentials of Pediatric Emergency Medicine Fellowships” in *Pediatric Emergency Care*. Dr. [Daniel Schumacher, MD, MEd](#), who is pursuing a PhD focused on the association between entrustment decisions and indicators of quality of care, presented a workshop at the first International Summit on Competency-based Medical Education.

The efforts of faculty members Dr. [Rich Ruddy, MD](#); and [Lynn Babcock, MD, MS](#), provides an anchor to our national leadership in PECARN. Dr. Ruddy serves as Chair of the National Steering Committee for PECARN. Two new R01s awarded to the network in FY17 have site PIs based at Cincinnati Children's (sepsis, local PI is Dr. [Evaline Alessandrini, MD, MSCE](#); and diagnostic error, local PI is Dr. Rich Ruddy).

Overall for FY17, the Division of Emergency Medicine had three faculty funded on career development awards: Drs. Todd Florin, [Jennifer Reed, MD](#); and [Tara Rhine, MD, MS](#). Five faculty funded through R01/U01 mechanisms as PI: Drs. Rich Ruddy; [Judith Dexheimer, PhD](#); [Melinda Mahabee-Gittens, MD, MS, CTTS](#); and Jackie Grupp-Phelan). More than 20 PEM faculty funded from at least one grant source during the year.

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## Division Publications

1. Florin TA; Plint AC; Zorc JJ. [Viral bronchiolitis](#). *The Lancet*. 2017; 389:211-225.
2. Mahajan P; Kuppermann N; Mejias A; Suarez N; Chaussabel D; Casper TC; Smith B; Alpern ER; Anders J; Atabaki SM. [Association of RNA Biosignatures With Bacterial Infections in Febrile Infants Aged 60 Days or Younger](#). *Journal of the American Medical Association*. 2016; 316:846-857.
3. Hagedorn PA; Kirkendall ES; Kouril M; Dexheimer JW; Courter J; Minich T; Spooner SA. [Assessing Frequency and Risk of Weight Entry Errors in Pediatrics](#). *JAMA Pediatrics*. 2017; 171:392-393.
4. Schumacher DJ; van der Vleuten CPM; Carraccio CL. [The Future of High-Quality Care Depends on Better Assessment of Physician Performance](#). *JAMA Pediatrics*. 2016; 170:1131-1132.
5. Florin TA; Carron H; Huang G; Shah SS; Ruddy R; Ambroggio L. [Pneumonia in Children Presenting to the Emergency Department With an Asthma Exacerbation](#). *JAMA Pediatrics*. 2016; 170:803-805.
6. Athans BS; Depinet HE; Towbin AJ; Zhang Y; Zhang B; Trout AT. [Use of Clinical Data to Predict Appendicitis in Patients with Equivocal US Findings](#). *Radiology*. 2016; 280:557-567.
7. Strait RT; Thornton S; Finkelman FD. [C gamma 1 Deficiency Exacerbates Collagen-Induced Arthritis](#). *Arthritis and Rheumatology*. 2016; 68:1780-1787.
8. Conners GP; Kressly SJ; Perrin JM; Richerson JE; Sankrithi UM; COMMITTEE ON PRACTICE AND AMBULATORY MEDICINE; COMMITTEE ON PEDIATRIC EMERGENCY MEDICINE; SECTION ON TELEHEALTH CARE; SECTION ON EMERGENCY MEDICINE; SUBCOMMITTEE ON URGENT CARE. [Nonemergency Acute Care: When It's Not the Medical Home..](#) *Pediatrics*. 2017; 139:e20170629.

9. Macklin JR; Gittelman MA; Denny SA; Southworth H; Arnold MW. **The EASE Quality Improvement Project: Improving Safe Sleep Practices in Ohio Children's Hospitals.** *Pediatrics*. 2016; 138:e20154267.
  10. Depinet H; von Allmen D; Towbin A; Hornung R; Ho M; Alessandrini E. **Risk Stratification to Decrease Unnecessary Diagnostic Imaging for Acute Appendicitis.** *Pediatrics*. 2016; 138:e20154031.
  11. Turner TL; Bhavaraju VL; Luciw-Dubas UA; Hicks PJ; Multerer S; Osta A; McDonnell J; Poynter S; Schumacher DJ; Tenney-Soeiro R. **Validity Evidence From Ratings of Pediatric Interns and Subinterns on a Subset of Pediatric Milestones.** *Academic Medicine*. 2017; 92:809-819.
  12. Saddawi-Konefka D; Schumacher DJ; Baker KH; Charnin JE; Gollwitzer PM. **Changing Physician Behavior With Implementation Intentions: Closing the Gap Between Intentions and Actions.** *Academic Medicine*. 2016; 91:1211-1216.
  13. Kirkendall ES; Kouril M; Dexheimer JW; Courter JD; Hagedorn P; Szczesniak R; Li D; Damania R; Minich T; Spooner SA. **Automated identification of antibiotic overdoses and adverse drug events via analysis of prescribing alerts and medication administration records.** *Journal of the American Medical Informatics Association*. 2017; 24:ocw086.
  14. Ni Y; Beck AF; Taylor R; Dyas J; Solti I; Grupp-Phelan J; Dexheimer JW. **Will they participate? Predicting patients' response to clinical trial invitations in a pediatric emergency department.** *Journal of the American Medical Informatics Association*. 2016; 23:671-680.
  15. Zackoff MW; DeBlasio D; Sobolewski B; Klein M. **Implementation of point-of-care tools for assessment of teaching.** *Medical Education*. 2016; 50:1169-1169.
  16. Rhine T; Quatman-Yates C; Clark RA. **A Longitudinal Examination of Postural Impairments in Children With Mild Traumatic Brain Injury: Implications for Acute Testing.** *Journal of Head Trauma Rehabilitation*. 2017; 32:E18-E23.
  17. Kurowski BG; Wade SL; Dexheimer JW; Dyas J; Zhang N; Babcock L. **Feasibility and Potential Benefits of a Web-Based Intervention Delivered Acutely After Mild Traumatic Brain Injury in Adolescents: A Pilot Study.** *Journal of Head Trauma Rehabilitation*. 2016; 31:369-378.
  18. Epp A; Sullivan KC; Herr AB; Strait RT. **Immunoglobulin Glycosylation Effects in Allergy and Immunity.** *Current Allergy and Asthma Reports*. 2016; 16:79.
  19. Hutton JS; Phelan K; Horowitz-Kraus T; Dudley J; Altaye M; DeWitt T; Holland SK. **Story time turbocharger? Child engagement during shared reading and cerebellar activation and connectivity in preschool-age children listening to stories.** *PLoS one*. 2017; 12:e0177398.
  20. Pomerantz WJ; Gardner D; Gittelman MA. **An effective way to utilize daycare organizations to distribute home safety equipment.** *Journal of Trauma and Acute Care Surgery*. 2016; 81:s3-s7.
  21. Wurster Ovalle V; Pomerantz WJ; Anderson BL; Gittelman MA. **Severe unintentional injuries sustained by Ohio children: Is there urban/rural variation?.** *Journal of Trauma and Acute Care Surgery*. 2016; 81:s20-s24.
  22. Gittelman MA; Kincaid M; Denny S; Werve Arnold M; FitzGerald M; Carle AC; Mara CA. **Evaluating the reliability of an injury prevention screening tool: Test-retest study.** *Journal of Trauma and Acute Care Surgery*. 2016; 81:s14-s19.
  23. Vaughn LM; Jacquez F; Marschner D; McLinden D. **See what we say: using concept mapping to visualize Latino immigrant's strategies for health interventions.** *International Journal of Public Health*. 2016; 61:837-845.
  24. Rinderknecht AS; Dyas JR; Kerrey BT; Geis GL; Ho MH; Mittiga MR. **Studying the Safety and Performance of Rapid Sequence Intubation: Data Collection Method Matters.** *Academic Emergency Medicine*. 2017; 24:411-421.
  25. Fullerton K; Depinet H; Iyer S; Hall M; Herr S; Morton I; Lee T; Melzer-Lange M; Emer CHAP. **Association of Hospital Resources and Imaging Choice for Appendicitis in Pediatric Emergency Departments.** *Academic Emergency Medicine*. 2017; 24:400-409.
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## Grants, Contracts, and Industry Agreements

### Annual Grant Award Dollars

Investigator	Title	Sponsor	ID	Dates	Amount
Jacqueline M Grupp-Phelan	Teen Alcohol Screening in the Pediatric Emergency Care Applied Research Network	National Institutes of Health (Rhode Island Hospital)	R01 AA021900	09/05/2012 - 05/31/2017	\$3,788
Charles J Schubert, MD	City of Cincinnati Immunization Project	City of Cincinnati	45X0429	01/01/2012 - 03/31/2017	\$7,340.82
Jennifer Reed, MD	Decreasing Teen STI Prevalence through Universal Emergency Department Screening	National Institutes of Health	K23 HD075751	05/01/2014 - 04/30/2018	\$162,948
Seema Bhatt, MD	HIV Testing in Ohio Emergency Departments	Ohio Department of Health	03130012HT0314	01/01/2014 - 12/31/2017	\$50,000
Jacqueline M Grupp-Phelan	Optimizing Youth Suicide Risk Screening and Triage in the Emergency Department	National Institutes of Health (University of Michigan)	U01 MH104311	09/01/2014 - 06/30/2017	\$258,976
Richard Thomas Strait, MD	Infant Specific-IgE, Rhinovirus-C Bronchiolitis, and Incident Asthma in MARC-35	National Institutes of Health (Massachusetts General Hospital)	R01 AI114552	12/01/2014 - 11/30/2019	\$5,141
Lynn Babcock, MD	Massive Transfusion Epidemiology and Outcomes in Children (MATIC) Study	National Institutes of Health (Washington University)	R21 HL128863	08/01/2016 - 07/31/2018	\$2,500
Jacqueline M Grupp-Phelan	Ohio Valley Node-Network	National Institutes of Health (University of Cincinnati)	UG1 DA013732	09/01/2015 - 05/31/2020	\$18,048
E Melinda Mahabee-Gittens, MD, MS	An Intervention to Reduce SHS Exposure among Pediatric Emergency Patients	National Institutes of Health	R01 HD083354	08/01/2015 - 06/30/2020	\$638,346
Todd Florin, MD	Biomarkers and Risk Stratification in Pediatric Community-Acquired Pneumonia	National Institutes of Health	K23 AI121325	01/15/2016 - 12/31/2019	\$188,977
Richard M Ruddy, MD	EMS for Children: Pediatric Emergency Care Applied	Health Resources & Services Admin	U03 MC22684	09/01/2015 -	\$670,000

	Research Network: (PECARN) Hospitals of the Midwest Emergency Research Node (HOMERUN) and EMS Affiliate			08/31/2019	
Lynn Babcock, MD	Established Status Epilepticus Treatment Trial (ESETT)	National Institutes of Health (University of Virginia)	U01 NS088034	09/30/2014 - 06/30/2019	\$1,000
Tara Devi Rhine, MD	Novel Predictors of Recovery from Early Brain Injury	Natl. Ctr for Advancing Translational Sc (University of Cincinnati)	KL2 TR001426	08/14/2015 - 03/31/2017	\$162,000
Judith Dexheimer, PhD	Optimal Methods for Notifying Clinicians about Epilepsy Surgery Patients	Agcy for Healthcare Research and Quality	R21 HS024977	09/30/2016 - 09/29/2018	\$137,233
Benjamin Kerrey, MD	Motion Capture to Determine Critical Biomechanics of Laryngoscopy and Tracheal Intubation	Ohio Department of Public Safety	ODPS - Kerry,Benjami	07/01/2016 - 06/30/2018	\$78,552
Richard M Ruddy, MD	RNA Biosignatures: A Paradigm Change for the Management of Young Febrile Infants	National Institutes of Health (Wayne State University)	R01 HD085233	08/21/2015 - 12/31/2016	\$7,930
Theresa Frey, MD	Intranasal Ketamine Compared with Intranasal Fentanyl for Treatment of Pain Associated with Acute Extremity Injuries in Children: A Randomized Controlled Trial	American Academy of Pediatrics	AAP - Frey,Theresa	07/12/2016 - 07/11/2017	\$12,500
Michael A Gittelman, MD	Motivations and Messaging for Families to Practice Infant Safe Sleep	Ohio Children's Trust Fund (American Academy of Pediatrics)	AAP - Gittelman,Mich	07/01/2016 - 06/30/2017	\$75,000
Michelle Eckerle, MD	Effectiveness of Bubble CPAP in Reducing Pneumonia Mortality in High Risk Populations in Malawi	Bill & Melinda Gates Foundation (Johns Hopkins School of Medicine)	2003088275	05/01/2016 - 04/30/2018	\$5,812
<b>Total Annual Grant Award Dollars</b>					<b>\$2,486,091.82</b>